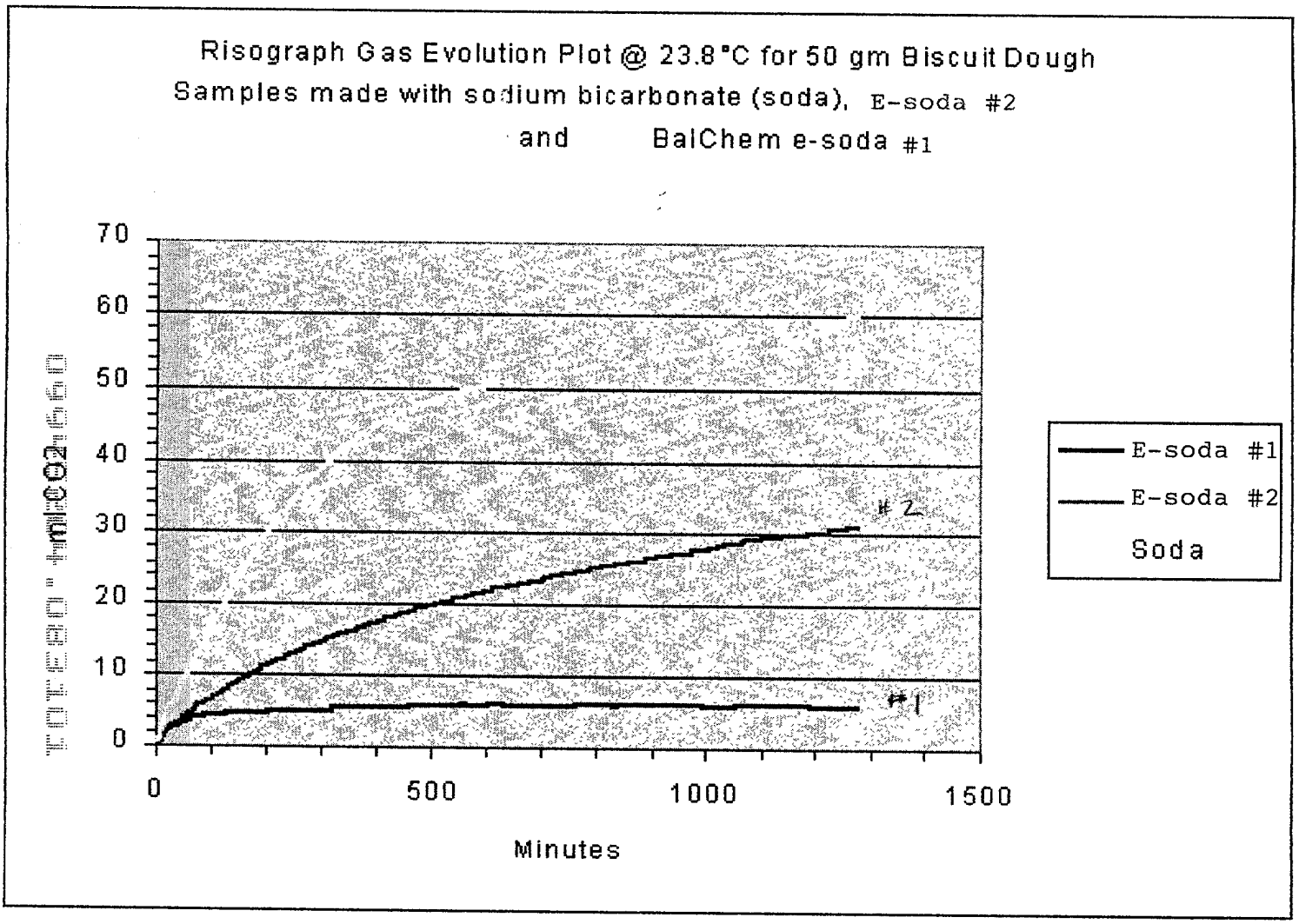
Risograph Gas Evolution Plot @ 23.8°C for 50 gm Biscuit Dough
Samples made with sodium bicarbonate (soda), E-soda #2
and BalChem e-soda #1
70
60
50
40
30
20
10
0
0
500
1000
1500
Minutes
2
1
E-soda #1
E-soda #2
Soda

FIG. 1

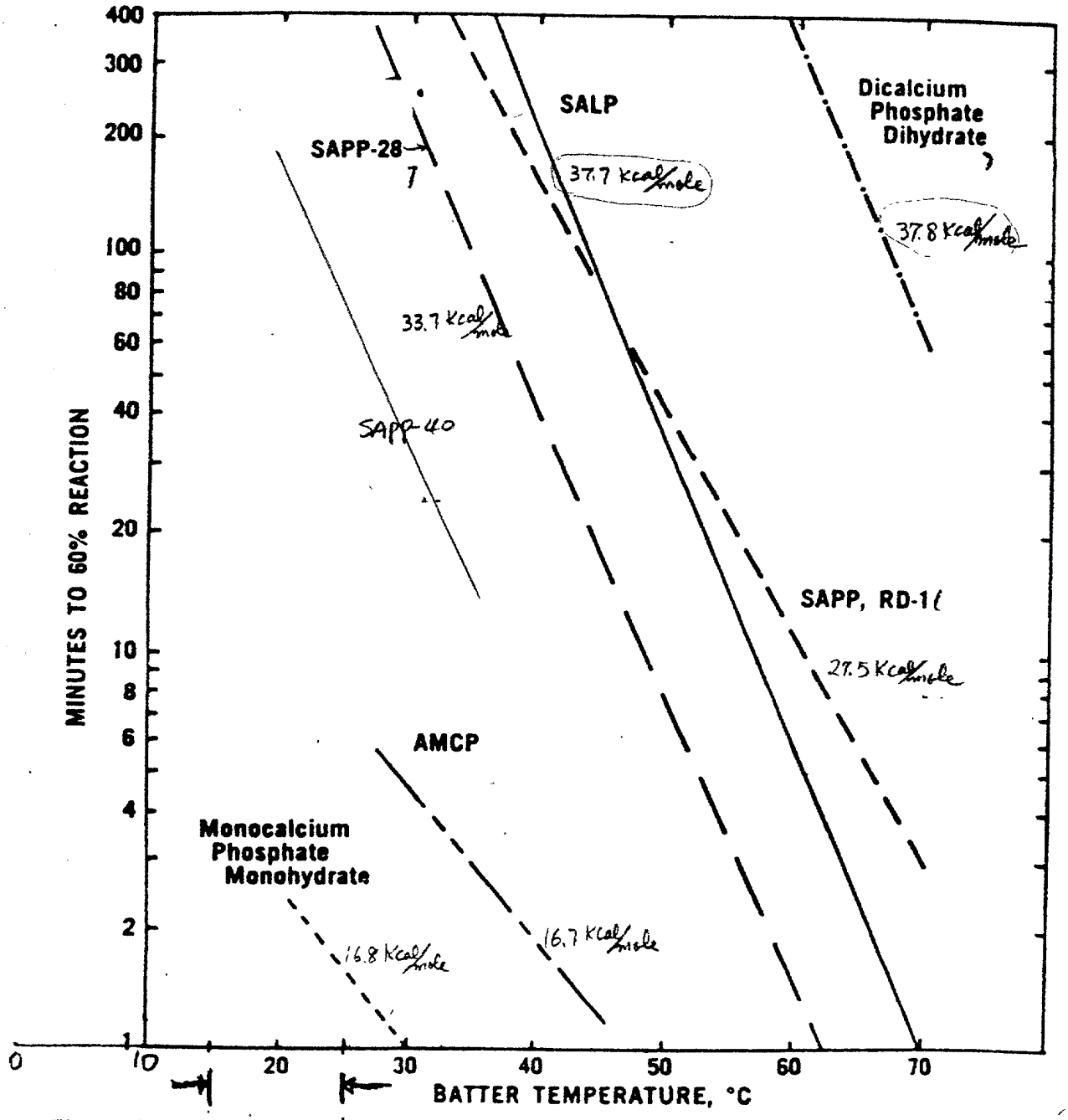

Fig. 2. Reaction rate vs batter temperature for various leavening acids. SAPP, sodium acid pyrophosphate; SALP, sodium aluminum sulfate; AMCP, anhydrous monocalcium phosphate; RD-1 is a grade of SAPP.

FIG. 2

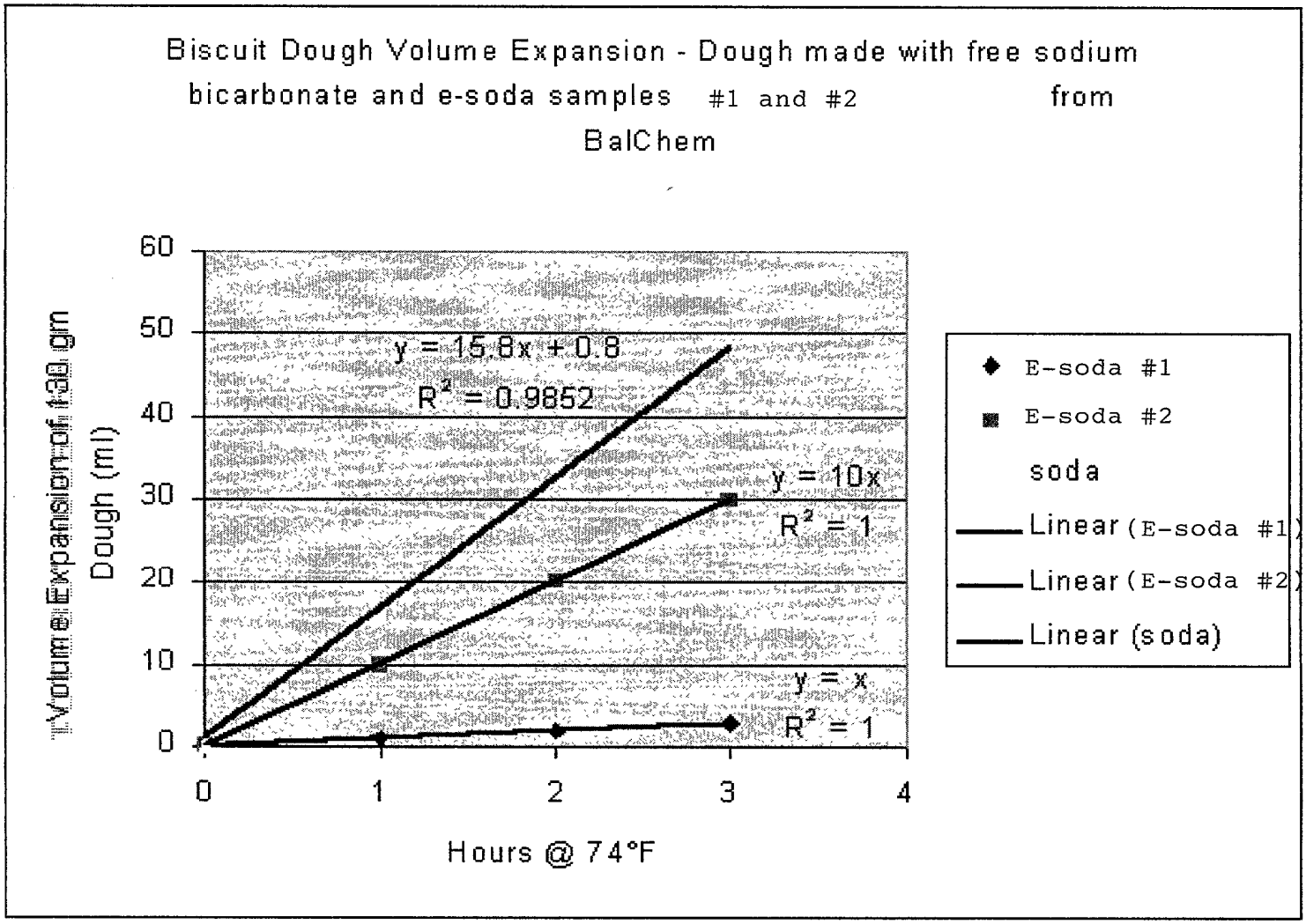
Biscuit Dough Volume Expansion - Dough made with free sodium bicarbonate and e-soda samples #1 and #2 from BalChem
Volume Expansion of 130 gm Dough (ml)
60
50
40
30
20
10
0
0
1
2
3
4
Hours @ 74°F
y = 15.8x + 0.8
R² = 0.9852
y = 10x
R² = 1
y = x
R² = 1
E-soda #1
E-soda #2
soda
Linear (E-soda #1)
Linear (E-soda #2)
Linear (soda)

FIG. 3

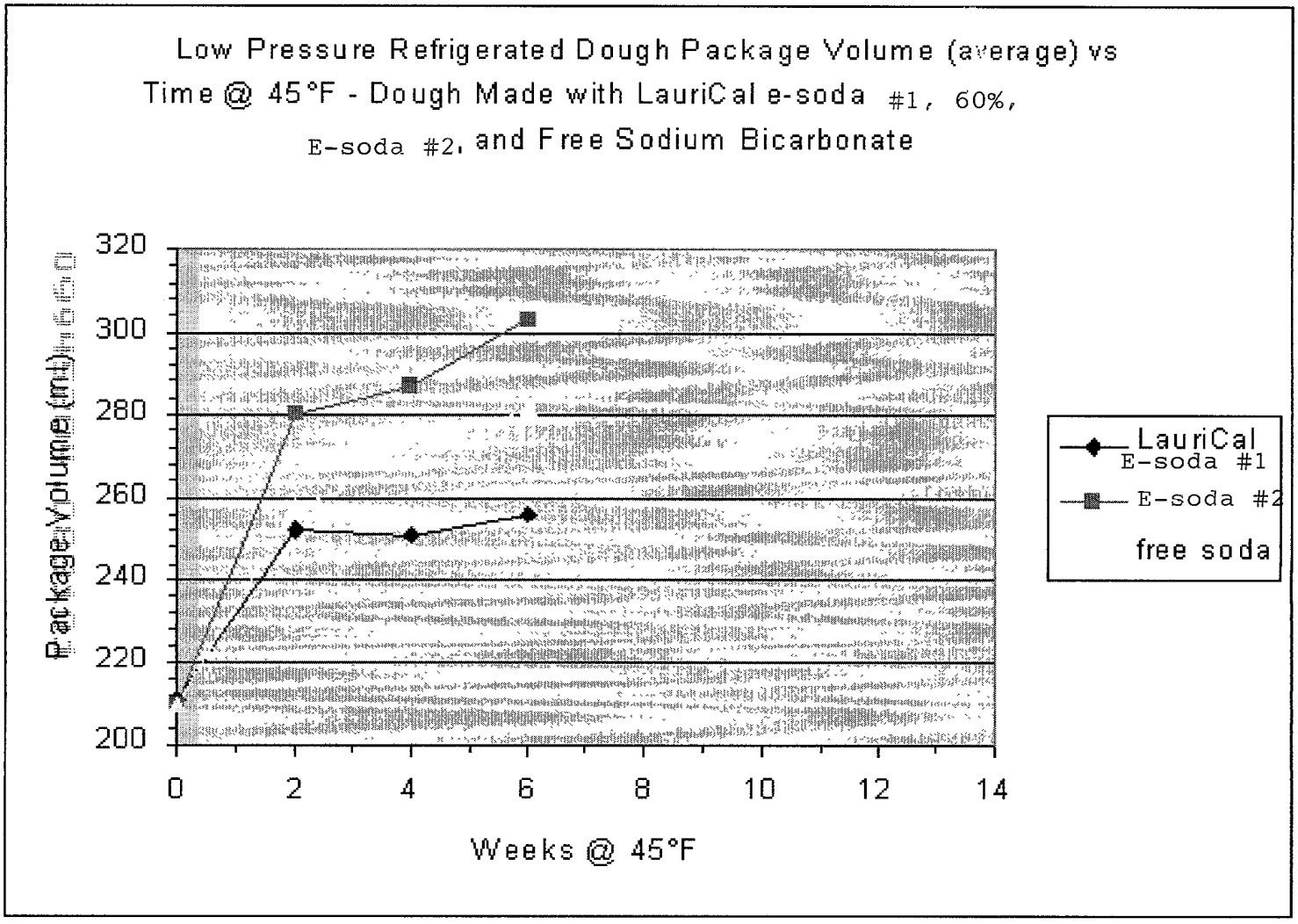
Low Pressure Refrigerated Dough Package Volume (average) vs Time @ 45°F - Dough Made with LauriCal e-soda #1, 60%, E-soda #2, and Free Sodium Bicarbonate
Package Volume (ml)
320
300
280
260
240
220
200
0
2
4
6
8
10
12
14
Weeks @ 45°F
LauriCal E-soda #1
E-soda #2
free soda

FIG. 4